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SEQUENCE LISTING

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TECH CENTER 1600/2900

<110> ARIAD Gene Therapeutics, Inc.

<120> Chimeric Transcription Factors

<130> 346E.US

<140> 09/407,402

<141> 1999-09-28

<160> 75

<170> PatentIn version 3.0

<210> 1

<211> 8

<212> PRT

<213> herpes simplex virus 7

<400> 1

Asp Phe Asp Leu Asp Met Leu Gly
1 5

<210> 2

<211> 9

<212> PRT

<213> herpes simplex virus 7

<400> 2

Asp Phe Asp Leu Asp Met Leu Gly Gly
1 5

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<213> herpes simplex virus 7

<400> 3

Asp Phe Asp Leu Asp Met Leu Gly
1 5

<210> 4

<211> 18
 <212> PRT
 <213> homo sapien

<400> 4

Asn Phe Leu Gln Leu Pro Gln Gln Thr Gln Gly Ala Leu Leu Thr
 Ser
 1 5 10 15

Gln Pro

<210> 5
 <211> 6
 <212> PRT
 <213> homo sapien

<400> 5

Ser Tyr Gly Gln Gln Ser
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<400> 7
 atgcgcggcc gccgcctgtg tgggtgcgga tgtg
 34

<210> 8
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<212> DNA
 <213> synthetic construct

<400> 8
 atgcgcggcc gcaggaggaa gaaacgcacc agc
 33

<210> 9
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 <212> DNA
 <213> synthetic construct

<400> 9
 gcatggatcc gattcaacta gtgttgattc ttttttcttt ctggcggcg
 49

<210> 10
 <211> 294
 <212> DNA
 <213> homo sapien

<400> 10
 ctggggggcct tgcttggcaa cagcacagac ccagctgtgt tcacagacct ggcat
 ccgtc 60

gacaaccagc tgctgaacca gggcatacct gtggcccccc acacaactga gccca
 tgctg 120

atggagtacc ctgaggctat aactcgcccta gtgacagggg cccagaggcc ccccg
 accca 180

gctcctgctc cactgggggc cccggggctc cccaatggcc tcctttcagg agatg
 aagac 240

ttctcctcca ttgcggacat ggacttctca gccctgctga gtcagatcag ctcc
 294

<210> 11
 <211> 573
 <212> DNA
 <213> homo sapien

<400> 11

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tggcc 60

ccggccctc cccaagtctt gccccaggct ccagccctg cccctgctcc agcca
tggtta 120

tcagctctgg cccaggcccc agccctgtc ccagtcctag ccccaggccc tcctc
aggct 180

gtggccccac ctgcccccaa gccacccag gctggggaag gaacgctgtc agagg
ccctg 240

ctgcagctgc agtttgatga tgaagacctg ggggccttgc ttggcaacag cacag
acca 300

gctgtgttca cagacctggc atccgtcgac aactccgagt ttcagcagct gctga
accag 360

ggcatacctg tggcccccca cacaactgag cccatgctga tggagtacc tgagg
ctata 420

actgcctag tgacagccca gaggcccccc gaccagctc ctgctccact ggggg
ccccg 480

gggctcccca atggcctcct ttcaggagat gaagacttct cctccattgc ggaca
tggac 540

ttctcagccc tgctgagtca gatcagctcc taa
573

<210> 12

<211> 36

<212> DNA

<213> synthetic construct

<400> 12

gcatgtctag agagatgtgg catgaaggcc tggaag
36

<210> 13

<211> 35

<212> DNA

<213> synthetic construct

<400> 13
gcatacactag tcttttgagat tcgtcgggaac acatg
35

<210> 14
<211> 33
<212> DNA
<213> synthetic construct

<400> 14
gcacattcta gaattgatac gcccagaccc ttg
33

<210> 15
<211> 33
<212> DNA
<213> synthetic construct

<400> 15
cgatcaacta gtaagtgtca atttccgggg cct
33

<210> 16
<211> 36
<212> DNA
<213> synthetic construct

<400> 16
gcactatcta gactgaagaa catgtgtgag cacagc
36

<210> 17
<211> 36
<212> DNA
<213> synthetic construct

<400> 17
gcactatcta gagtgagcga ggagctgata cgagtg
36

<210> 18

<211> 36
<212> DNA
<213> synthetic construct

<400> 18
cgatcaacta gtggaaacat attgcagctc taagga
36

<210> 19
<211> 36
<212> DNA
<213> synthetic construct

<400> 19
cgatcaacta gttggcacag ccaattcaag gtcccg
36

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<213> synthetic construct

<400> 20
atgctctaga ctgggggcct tgcttgcaa c
31

<210> 21
<211> 31
<212> DNA
<213> synthetic construct

<400> 21
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31

<210> 22
<211> 39
<212> DNA
<213> synthetic construct

<400> 22
gcattgatcc gctcaactag tggagctgat ctgactcag

39

<210> 23
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 <212> DNA
 <213> synthetic construct

<400> 23
 atgctctaga cttggaaccg gacctgccgc c
 31

<210> 24
 <211> 34
 <212> DNA
 <213> synthetic construct

<400> 24
 gcatcactag tccagaaagg gcaccagcca atat
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<210> 25
 <211> 62
 <212> PRT
 <213> synthetic construct

<400> 25

Met Ala Ser Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Ser Leu
 Gly
 1 5 10 15

Gly Pro Ser Ser Pro Lys Lys Lys Arg Lys Val Ser Arg Glu Arg
 Pro
 20 25 30

Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Ile Asn Thr Arg Glu
 Met
 35 40 45

Trp His Glu Gly Leu Glu Glu Arg Ile Ser Lys Thr Ser Tyr

50

55

60

<210> 26
<211> 209
<212> DNA
<213> synthetic construct

<400> 26
gtagaagcgc gtatggcttc tagctatcct tatgacgtgc ctgactatgc cagcc
tggga 60

ggaccttcta gtcctaagaa gaagagaaag gtgtctagag aacgcccata tgctt
gccct 120

gtcgagtcct gcgaagaatc aacactagag agatgtggca tgaaggcctg gaaga
cgaat 180

ctcaaagact agttattagg gatacctgag
209

<210> 27
<211> 30
<212> DNA
<213> synthetic construct

<400> 27
gaattcctag aagcgaccat ggcttctagc
30

<210> 28
<211> 31
<212> DNA
<213> synthetic construct

<400> 28
gaagagaaag gtggctagcg aacgcccata t
31

<210> 29
<211> 37
<212> DNA
<213> synthetic construct

<400> 29
 atgctctaga agtgtgtcca cctgaagag tgaagac
 37

<210> 30
 <211> 55
 <212> DNA
 <213> synthetic construct

<400> 30
 atgctgatca agatctttat taactagtgc cactgtcgtt cagcatcagg gggat
 55

<210> 31
 <211> 25
 <212> DNA
 <213> synthetic construct

<400> 31
 gccatggtgg ctagcctata gtgag
 25

<210> 32
 <211> 25
 <212> DNA
 <213> synthetic construct

<400> 32
 ggcggtgttg gctagcgtcg gtcag
 25

<210> 33
 <211> 27
 <212> PRT
 <213> synthetic construct

<400> 33

Met Ala Ser Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Ser Leu
 Gly
 1 5 10 15

Gly Pro Ser Ser Pro Lys Lys Lys Arg Lys Val
 20 25

<210> 34
 <211> 123
 <212> DNA
 <213> synthetic construct

<400> 34
 gaattccaga agcgcgtatg gcttctagct atccttatga cgtgcctgac tatgc
 cagcc 60

tgggaggacc ttctagtcct aagaagaaga gaaaggtgtc tagatatcga ggatc
 ccaag 120

ctt
 123

<210> 35
 <211> 222
 <212> DNA
 <213> synthetic construct

<400> 35
 gctagctaata gatgggcgct cgagtaata tgggcggtcg actaatgatg ggcgc
 tegag 60

taatgatggg cgtctagcta atgatgggcg ctcgagtaata gatgggcggt cgact
 aatga 120

tgggcgctcg agtaaatgatg ggcgtctagc taatgatggg cgctcgagta atgat
 ggcgc 180

gtcgactaat gatgggcgct cgagtaata tgggcgtcta ga
 222

<210> 36
 <211> 121
 <212> DNA
 <213> synthetic construct

<400> 36
 tctagaacgc gaattccggt aggcgtgtac ggtgggaggt ctatataagc agagc

tcgtt 60

tagtgaaccg tcagatcgcc tggagacgcc atccacgctg ttttgacctc catag
aagct 120

t 121

<210> 37

<211> 141

<212> DNA

<213> synthetic construct

<400> 37

tctagaacgc gaattcaaca ttttgacacc cccataatat ttttccagaa ttaac
agtat 60

aaattgcac tcttggtcaa gaggcccta tcaactctct taatcactac tcaca
gtaac 120

ctcaactcct gccacaagct t
141

<210> 38

<211> 304

<212> DNA

<213> synthetic construct

<400> 38

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tgcag 60

gtcggagtac tgtcctccga gcggagtact gtccctccgag cggagtactg tcctc
cgagc 120

ggagtactgt cctccgagcg gaggactgtc ctccgagcgc agactctaga ggatc
cgaga 180

acattttgac acccccataa tatttttcca gaattaacag tataaattgc atctc
ttgtt 240

caagagttcc ctatcactct ctttaatcac tactcacagt aacctcaact cctgc
cacia 300

gctt

304

<210> 39
 <211> 24
 <212> DNA
 <213> synthetic construct

<400> 39
 cccgtggtcc cgcgttgctt cgat
 24

<210> 40
 <211> 306
 <212> DNA
 <213> homo sapien

<400> 40
 ctgggggcct tgcttggcaa cagcacagac ccagctgtgt tcacagacct ggcat
 ccgtc 60

gacaaactccg agtttcagca gctgctgaac cagggcatac ctgtggcccc ccaca
 caact 120

gagcccatgc tgatggagta ccttgaggct ataactcgcc tagtgacagg ggccc
 agagg 180

ccccccgacc cagctcctgc tccactgggg gccccggggc tcccgaatgg cctcc
 tttca 240

ggagatgaag acttctcctc cattgcggac atggacttct cagccctgct gagtc
 agatc 300

agctcc
 306

<210> 41
 <211> 72
 <212> DNA
 <213> synthetic construct

<400> 41
 ctagctaattg atgggcgctc gagtaattgat gggcggtcga ctaatgatgg gcgct

cgagt 60

aatgatgggc gt
72

<210> 42
<211> 31
<212> DNA
<213> synthetic construct

<400> 42
atgctctaga gaacgcccat atgcttgccc t
31

<210> 43
<211> 34
<212> DNA
<213> synthetic construct

<400> 43
atgcgcggcc gccgcctgtg tgggtgcgga tgtg
34

<210> 44
<211> 33
<212> DNA
<213> synthetic construct

<400> 44
atgcgcggcc gcaggaggaa gaaacgcacc agc
33

<210> 45
<211> 49
<212> DNA
<213> synthetic construct

<400> 45
gcatggatcc gattcaacta gtgttgattc ttttttcttt ctggcggcg
49

<210> 46
<211> 30
<212> DNA
<213> synthetic construct

<400> 46
tcagtctaga ggagtgcagg tggaaaccat
30

<210> 47
<211> 40
<212> DNA
<213> synthetic construct

<400> 47
tcagggatcc tcaataacta gtttccagtt ttagaagctc
40

<210> 48
<211> 28
<212> DNA
<213> synthetic construct

<400> 48
actgtctaga gtcagcctgg gggacgag
28

<210> 49
<211> 43
<212> DNA
<213> synthetic construct

<400> 49
gcatggatcc gattcaacta gtcccaccgt actcgtcaat tcc
43

<210> 50
<211> 31
<212> DNA
<213> synthetic construct

<400> 50

atgctctaga ctgggggcct tgcttggcaa c
31

<210> 51
<211> 39
<212> DNA
<213> synthetic construct

<400> 51
gcatggatcc gctcaactag tggagctgat ctgactcag
39

<210> 52
<211> 10
<212> PRT
<213> synthetic construct

<400> 52

Ser	Arg	Asp	Phe	Asp	Leu	Asp	Met	Leu	Gly
1				5					10

<210> 53
<211> 31
<212> DNA
<213> synthetic construct

<400> 53
atgctctaga gatgagtttc ccaccatggt g
31

<210> 54
<211> 39
<212> DNA
<213> synthetic construct

<400> 54
gcatggatcc gctcaactag tggagctgat ctgactcag
39

<210> 55
<211> 25

<212> DNA
<213> synthetic construct

<400> 55
ctagagactt cgacttggac atgct
25

<210> 56
<211> 29
<212> DNA
<213> synthetic construct

<400> 56
agtccccag catgtccaag tcgaagtct
29

<210> 57
<211> 35
<212> DNA
<213> synthetic construct

<400> 57
gggggacttc gacttggaca tgctgactag ttgag
35

<210> 58
<211> 31
<212> DNA
<213> synthetic construct

<400> 58
gatcctcaac tagtcagcat gtccaagtcg a
31

<210> 59
<211> 31
<212> DNA
<213> synthetic construct

<400> 59
atgctctaga gacggggatt ccccggggccc g
31

<210> 60
<211> 43
<212> DNA
<213> synthetic construct

<400> 60
gcatggatcc tcattaacta gtcccaccgt actcgtcaat tcc
43

<210> 61
<211> 41
<212> DNA
<213> synthetic construct

<400> 61
ctagagacac cagtgccctg ctggacctgt tcagcccctc g
41

<210> 62
<211> 43
<212> DNA
<213> synthetic construct

<400> 62
ggtcaccgag gggctgaaca ggtccagcag ggcactgggtg tct
43

<210> 63
<211> 41
<212> DNA
<213> synthetic construct

<400> 63
gtgaccgtgc ccgacatgag cctgcctgac cttgacagca g
41

<210> 64
<211> 41
<212> DNA
<213> synthetic construct

<400> 64
 gtgaccgtgc ccgacatgag cctgcctgac cttgacagca g
 41

<210> 65
 <211> 13
 <212> PRT
 <213> homo sapien

<400> 65
 Ser Arg Asp Phe Ala Asp Met Asp Phe Asp Ala Leu Leu
 1 5 10

<210> 66
 <211> 14
 <212> PRT
 <213> homo sapien

<400> 66
 Asp Leu Asp Ser Ser Leu Ala Ser Ile Gln Glu Leu Leu Ser
 1 5 10

<210> 67
 <211> 11
 <212> PRT
 <213> homo sapien

<400> 67
 Ser Arg Ser Tyr Gly Gln Gln Gly Ser Gly Ser
 1 5 10

<210> 68
 <211> 18
 <212> PRT
 <213> synthetic construct

<400> 68
 Asp Phe Asp Leu Asp Met Leu Gly Asp Phe Asp Leu Asp Met Leu
 Gly 1 5 10 15

Ser Arg

<210> 69
 <211> 25
 <212> DNA
 <213> synthetic construct

<220>
 <221> N
 <222> (7)..(7)
 <223> Where N ("X" in the specification) represents 0, 1 or
 2 nucleotid
 es, being A, G, T and/or C

<400> 69
 agatctngat gagtttccca ccatg
 25

<210> 70
 <211> 25
 <212> DNA
 <213> synthetic construct

<220>
 <221> N
 <222> (7)..(7)
 <223> Where N ("X" in the specification) represents 0, 1 or
 2 nucleotid
 es, being A, G, T and/or C

<400> 70
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 25

<210> 71
 <211> 26
 <212> DNA
 <213> synthetic construct

<400> 71
tctagaaaaa agttcaataa agtcag
26

<210> 72
<211> 24
<212> DNA
<213> synthetic construct

<400> 72
actagtgcag tacagatgaa gttg
24

all
calc
<210> 73
<211> 18
<212> DNA
<213> synthetic construct

<400> 73
cactagttaa ctaagtaa
18

<210> 74
<211> 24
<212> DNA
<213> synthetic construct

<400> 74
tctagagatg agtttcccac catg
24

<210> 75
<211> 24
<212> DNA
<213> synthetic construct

<400> 75
actagtggag ctgatctgac tcag
24